



EvapCORE®
STANDARD SOLUTIONS

selectTECH™



CONDENSER POWER SOLUTION

Flexible, Pre-engineered Power System for Multi-fan,
Multi-pump Evaporative Condensers



selectTECH™

Get to Know SelectTech

Since its founding, EVAPCO SelectTech has specialized in the engineering and manufacturing of high-performance control and power solutions for industrial refrigeration and evaporative cooling systems. SelectTech's mission is to deliver reliable, factory-engineered enclosures and automation that simplify installation, improve system operation, and enhance safety for mission-critical facilities.

SelectTech's portfolio includes:

- Pre-engineered condenser power enclosures and control enclosure
- Custom control solutions for integrated refrigeration and process systems
- Modernization and retrofit packages for legacy control architecture
- Engineering, startup support, and service for controls and automation

Together with EVAPCO's heat transfer equipment, SelectTech's control and power solutions provide a coordinated, end-to-end approach to industrial refrigeration and evaporative cooling. This combination helps facilities achieve higher efficiency, greater reliability, and safer, more streamlined operation over the life of the system.



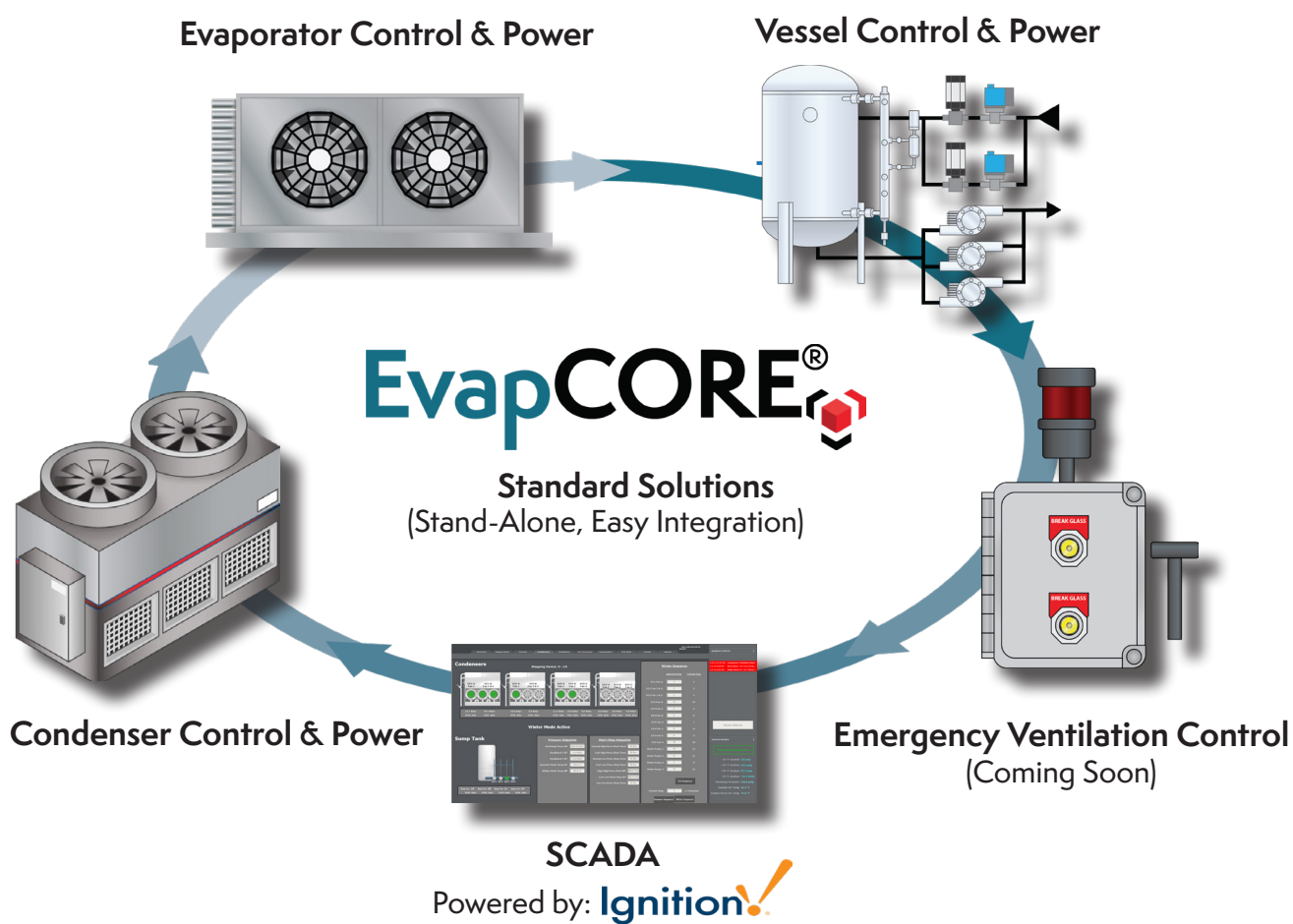
EVAPCO SelectTech, Belmont, Michigan USA



EvapCORE[®] at a GLANCE

EvapCORE Standard Solutions

EvapCORE is EVAPCO Select Technologies' standard product line. Designed with versatility and longevity in mind, these standalone systems offer configurable, plug-and-play solutions. EvapCORE Standard Solutions are easily integrated into existing or future control systems.



EvapCORE Services

Startup Services

- Instrument & Sensor Calibration
- PLC & HMI Programming Updates
- Onsite System Configuration & I/O Checkout
- Onsite Commissioning

Post-Project Services

- Remote Support (via VPN, Remote Desktop, TeamViewer, etc.)
- Onsite Support
- SCADA Integration Services

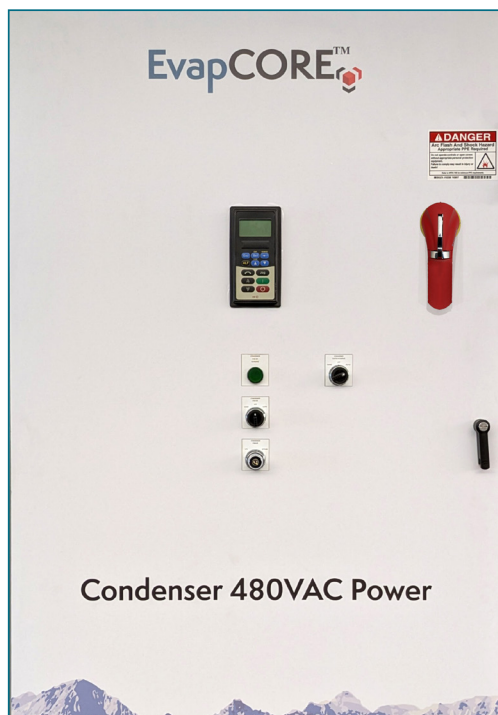
EvapCORE Condenser Power Solution

CONDENSER POWER ENCLOSURE

The EvapCORE Standard Condenser Power Enclosure delivers **clean, organized power distribution** for all EVAPCO evaporative condenser configurations and other manufacturers' models. It provides dedicated power for fan motors, fan heaters, water pumps, and includes power feeds for remote basin heater enclosures, **simplifying field wiring and reducing installation time.**

480 VAC is standard, with 575 VAC and 240 VAC three-phase voltages available upon request.

Available in four enclosure sizes with ten standard design layouts, the **EvapCORE Condenser Power Enclosure** line supports a variety of fan and pump configurations, giving designers and contractors a **flexible, pre-engineered solution.**



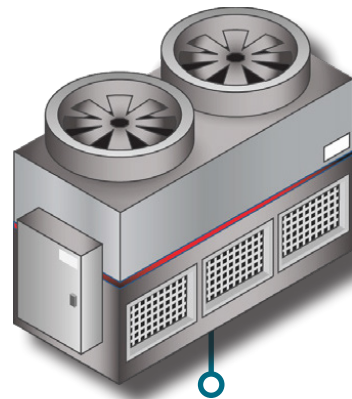
SUPPORTED CONFIGURATIONS

EvapCORE Condenser Power Enclosures are sized to handle everything from single-cell units to larger multi-fan, multi-pump systems, so one product family can cover most evaporative condenser applications.

Fits the following EVAPCO evaporative condensers and configurations:

- **PMRC**
- **eco-PMRC**
- **ATC**
- **eco-ATC**
- **PHC-SW**
- **PHC-DW**

COMPONENT	QUANTITY SUPPORTED	NOTES
Fans	Up to 6	VFD only
Pumps	1, 2, or 4	Across-the-line starter only
Basin Heaters	Up to 8	Power feed only



Ideal for multi-fan, evaporative condenser cells like the two-fan unit shown above. Provides power to fans, pumps, and basin heaters from a single, factory-engineered enclosure.

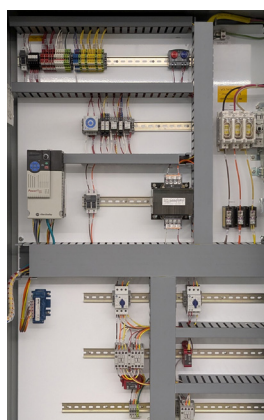
EvapCORE Condenser Power Solution

CONTROLS & INTEGRATION

EvapCORE enclosures are designed to drop into new or existing control architectures with minimal engineering effort. Hard-wired interface connection details make it easy to integrate with plant PLCs, EVAPCO options, and water level controls.

FUNCTION	WHAT IT PROVIDES
Hard-wired interface connections	Broad compatibility with most automation platforms
Low-level water cutout circuits via EVAPCO basin heater enclosure	Protection for basin heaters
EVAPCO condenser pre-wire compatibility	Direct tie-in to EVAPCO factory pre-wired ATC and PMRC options
Wiring schematics	Clear connection points for field terminations
Hand-off-auto switches	Local control and maintenance check

Other configurations available upon request



Factory-built control interior with organized terminations and pre-wired for external I/O control; providing fast, error-free integration with plant PLCs and EVAPCO condenser options.



Simplify installation with direct compatibility to EVAPCO factory pre-wired condenser options, reducing field wiring time and streamlining startup.

BENEFITS

EvapCORE control enclosures are designed with the end user in mind, providing practical advantages that simplify installation, enhance day-to-day operation, and support reliable long-term system performance.



Engineered to Reduce Installation and Lifecycle Costs



Universal Compatibility Across Major Control Platforms



Replacement parts available via multi-million dollar in-house inventory



Designed for Efficient, Streamlined Electrical Installation



Seamless Integration with EVAPCO Equipment and SelectTech Control Systems



Simplify Procurement with a Single-Source Solution from EVAPCO



Finger-Safe Design for Arc Flash Mitigation



Large Distribution Network for Allen-Bradley Components

EvapCORE Condenser Power Solution

ENCLOSURE DESIGN & COMPONENTS

Each EvapCORE enclosure is built around proven, industrial-grade components and a layout optimized for ease of use, maintenance, and safety. The result is a clean, service-friendly power enclosure that stands up to demanding environments.

- Allen-Bradley variable frequency drives (VFDs) for reliable fan speed control
- VFD keypads mounted to the enclosure door for easy access and adjustment



Operator-friendly VFD keypad on the enclosure door simplifies setup, speed changes, and troubleshooting in the field.

- Rotary, lockable disconnect handle for safe lockout/tagout



A front-mounted rotary disconnect gives technicians a clear, positive means of isolating condenser power at the enclosure, supporting safe lockout/tagout procedures and simplifying maintenance.

- Enclosure ventilation to help maintain proper enclosure temperature
- Durable painted steel enclosure for demanding industrial environments (Stainless steel available)
- Phase monitor for added power protection
- Bypass contactor configuration available

RATINGS & CERTIFICATIONS

EvapCORE Standard Condenser Power Enclosures are engineered to meet stringent industry standards, giving owners and engineers confidence in safety, code compliance, and short-circuit performance.

- ▶ 35 kA short-circuit current rating (SCCR) (65kA available upon request)
- ▶ UL 508A certified
- ▶ NEC compliant design
- ▶ NEMA 12 enclosure comes standard and is intended for indoor use
- ▶ NEMA 4 and 4X outdoor rated enclosures available upon request

GENERAL ASSUMPTIONS

- Fan cells are groupings of fans that are controlled in tandem
- Basin heater cells are groupings of basin heaters powered from one basin heater panel
- The basin heater selection includes 1 power feed for each basin heater cell
- The bypass contactor option is composed of a dual contactor bypass, no contactor on VFD input power
- HMI covers are included on all outdoor applications
- Load reactors are required if individual motor lead wiring is greater than 275 feet for motors 5HP or less, or 300 feet for motors greater than 5HP*
- All motors are assumed to be inverter duty rated
- VFD cable assumed to be used for all fan applications

*References Rockwell Automation Publication DRIVES-IN001Q-EN-P Page 107 Table 28

EvapCORE Condenser Power Solution

AVAILABLE OPTIONS

Startup, Documentation, & Installation Options

Support a smooth startup and handover with available services-project-specific documentation.

- Startup options, including onsite startup, available upon request
- Custom drawings with equipment name and tag identifiers
- Turnkey electrical installation solutions available upon request

Power Options

Improve power quality, support longer motor lead lengths, and protect sensitive instrumentation with available power-conditioning options.

- Load reactors for extended motor lead lengths to improve power quality and motor longevity
- Increased wiring distance options for remote fan motors
- Additional fusing for instrumentation (for circuit isolation)

Enclosure Options

- 304 Stainless steel enclosure option available
- NEMA 4 or 4X outdoor options available
- Remote basin power enclosures available as a condenser option from EVAPCO
- Air conditioners, filter fan units, and heaters for internal enclosure temperature control*
- VFD bypass and mechanical interlock options

Consult the factory for custom enclosure applications.

*Enclosure ventilation specifications determined based from environmental selection calculator.

Enclosure Sizes & Considerations

- 10 standard designs supporting various fan and pump configurations
- 4 standard enclosure sizes based on condenser model
 - Custom enclosure sizes available upon request

ENCLOSURE SIZE (NEMA 12)	# OF FANS	FAN HP RANGE	# OF VFDs	VFD HP RANGE	# OF PUMPS	PUMP HP RANGE
72" x 72" x 16" – With 12" legs	4	40 - 60	4	40 - 60	4	5 - 10
	4 - 6	15 - 40	2	40 - 80	2	5 - 10
72" x 60" x 16" – With 12" legs	2	40 - 100	2	40 - 100	2 - 4	5 - 10
	4	10 - 30	4	10 - 30	4	5 - 10
60" x 48" x 16" – With 12" legs	1	40 - 100	1	40 - 100	1 - 2	5 - 10
	2	2 - 30	2	2 - 30	1 - 4	1 - 10
	2 - 4	10 - 40	1	40 - 100	1 - 2	5 - 10
	4 - 6	3 - 15	2	6 - 30	2	5 - 10
60" x 36" x 12" – Wall mount with leg kit option	1	1 - 30	1	1 - 30	1 - 2	.75 - 10
	2 - 4	3 - 15	1	6 - 30	1 - 2	2 - 10



EVAPCO, Inc. — World Headquarters & Research / Development Center

P.O. Box 1300 • Westminster, MD 21158 USA
410.756.2600 • marketing@evapco.com • evapco.com

North America

 **EVAPCO, Inc.**
World Headquarters
Westminster, MD USA
410.756.2600
marketing@evapco.com

 **EVAPCO East**
Taneytown, MD USA

 **EVAPCO East**
Key Building
Taneytown, MD USA

 **EVAPCO Midwest**
Greenup, IL USA
217.923.3431
evapcomw@evapcomw.com

 **Evapcold Manufacturing**
Greenup, IL USA

 **EVAPCO Newton**
Newton, IL USA
618.783.3433
evapcomw@evapcomw.com

 **EVAPCO West**
Madera, CA USA
559.673.2207
contact@evapcowest.com

 **EVAPCO Alcoil, Inc.**
York, PA USA
717.347.7500
info@evapco-alcoil.com

 **EVAPCO Iowa**
Lake View, IA USA

EVAPCO Iowa
Sales & Engineering
Medford, MN USA
507.446.8005
evapcomn@evapcomn.com

 **EVAPCO LMP ULC**
Laval, Quebec, Canada
450.629.9864
info@evapcolmp.ca

 **EVAPCO Select Technologies, Inc.**
Belmont, MI USA
616.866.6700
sales@evapcoselect.com

 **Refrigeration Vessels & Systems Corporation**
Bryan, TX USA
979.778.0095
rsv@rvscorp.com

 **Tower Components, Inc..**
Ramseur, NC USA
336.824.2102
mail@towercomponentsinc.com

 **EvapTech, Inc.**
Edwardsville, KS USA
913.322.5165
marketing@evaptech.com

EvapTech Gulf Services
Houston, TX USA
281.529.6526
angie.montes@evaptech.com

EVAPCO Dry Cooling, Inc.
Bridgewater, NJ USA
908.379.2665
info@evapcodc.com

EVAPCO Dry Cooling, Inc.
Littleton, CO USA
908.895.3236
info@evapcodc.com

Asia Pacific

EVAPCO Asia Pacific Headquarters
Baoshan Industrial Zone Shanghai, P.R. China
(86) 21.6687.7786
marketing@evapcochina.com

 **EVAPCO (Shanghai) Refrigeration Equipment Co., Ltd.**
Baoshan Industrial Zone, Shanghai, P.R. China

 **EVAPCO (Beijing) Refrigeration Equipment Co., Ltd.**
Huairou District, Beijing, P.R. China
(86) 10.6166.7238
marketing@evapcochina.com

 **EVAPCO Air Cooling Systems (Jiaxing) Company, Ltd.**
Jiaxing, Zhejiang, P.R. China
(86) 573.8311.9379
info@evapcochina.com

 **EVAPCO Australia (Pty.) Ltd.**
Riverstone, NSW, Australia
(61) 02.9627.3322
sales@evapco.com.au

EvapTech (Shanghai) Cooling Tower Co., Ltd
Baoshan District, Shanghai, P.R. China.
Tel: (86) 21.6478.0265

EvapTech Asia Pacific Sdn. Bhd.
Puchong, Selangor, Malaysia
(60) 3.8070.7255
marketing-ap@evaptech.com

Europe | Middle East | Africa

EVAPCO Europe EMENA Headquarters
Tongeren-Borgloon, Belgium
(32) 12.39.50.29
evapco.europe@evapco.be

 **EVAPCO Europe BV**
Tongeren-Borgloon, Belgium

 **EVAPCO Europe, S.r.l.**
Milan, Italy
(39) 02.939.9041
evapcoeuropa@evapco.it

 **EVAPCO Europe, S.r.l.**
Sondrio, Italy

 **EVAPCO Europe A/S**
Aabybro, Denmark
(45) 9824.4999
info@evapco.dk

EVAPCO Europe GmbH
Meerbusch, Germany
(49) 2159.69560
info@evapco.de

EVAPCO Middle East DMCC
Dubai, United Arab Emirates
(971) 56.991.6584
info@evapco.ae

 **Evap Egypt Engineering Industries Co.**
A licensed manufacturer of EVAPCO, Inc.
Nasr City, Cairo, Egypt
(20) 10.054.32.198
evapco@tiiba-group.com

 **EVAPCO S.A. (Pty.) Ltd.**
A licensed manufacturer of EVAPCO, Inc.
Isando, South Africa
(27) 11.392.6630
evapco@evapco.co.za

South America

 **EVAPCO Brasil**
Equipamentos Industriais Ltda.
Sorocaba, São Paulo, Brazil
(55) 11.5681.2000
vendas@evapco.com.br

 **FanTR Technology Resources**
Sorocaba, São Paulo, Brazil
(55) 11.4025.1670
fantr@fantr.com